Type I and II Ground Disturbing Categorical Exclusion Action Classification Form

STIP Project No.	B-5513
WBS Element	17BP.6.R.96
Federal Project No.	

A. Project Description:

The proposed project involves the replacement of Bridge Number 72 carrying SR 2045 (Elliott Bridge Road) over Anderson Creek, in Harnett County.

Bridge Number 72 will be replaced with a bridge approximately 115 feet long. The new bridge will have a 30-foot ten-inch clear roadway width with two 11-foot lanes and four-foot five-inch offsets. The bridge length is based on preliminary design information and set by hydraulic requirements. The roadway grade of the new structure will be approximately the same as the existing bridge.

Project construction will extend approximately 330 feet from the south end and approximately 210 feet from the north end of the replacement for Bridge Number 72. SR 1741 will be widened to two 11-foot lanes with six-foot shoulders (two-foot paved). Nine-foot shoulders will be provided where guardrail is required. The roadway will be designed as a rural collector route using Sub-Regional Tier Guidelines with a 50 mile per hour design speed.

Traffic will be detoured off-site during construction (see Figure 1).

The project is included in the 2016-2025 North Carolina State Transportation Improvement Program (STIP). The project location is shown in Figure 1 in Appendix A. Photos of the site are shown in Figures 2 and 3 in Appendix A. Functional design plans are included in Appendix A as Figure 4.

Right of way acquisition and construction for the project are scheduled to begin in federal fiscal years 2019 and 2020, respectively, in the draft 2017-2027 STIP.

B. Description of Need and Purpose:

The purpose of the proposed project is to replace an obsolete bridge.

Based on the 2012 Bridge Inspection Report, Bridge No. 72 was structurally deficient and functionally obsolete. Temporary measures were installed to shore up the bridge until it could be replaced. There is section loss in the flanges and the deck has holes. The maintenance crews have noted there is no more metal to make their repair welds to. The bridge has been posted to keep heavier vehicles from using it. This bridge is a priority for maintenance work.

While the bridge currently has an acceptable sufficiency rating and is not considered functionally obsolete or structurally deficient, the current condition will not allow for future maintenance efforts to extend the life of the bridge. The table below presents information regarding the existing bridge.

Bridge No.	72
Crosses	Anderson Creek
Year Built	1977
Clear Roadway Width	28 feet
Length	106 feet
Sufficiency Rating	53.73
Functionally Obsolete?	No
Structurally Deficient?	No
Posted Weight Limit	22 tons SV 29 tons TTST

C. Categorical Exclusion Action Classification: (Check one)

\boxtimes	TYPE I

D. Proposed Improvements

28. Bridge rehabilitation, reconstruction, or replacement or the construction of grade separation to replace existing at-grade railroad crossings, if the actions meet the constraints in 23 CFR 771.117(e) (1-6).

E. Special Project Information:

A vicinity map showing the location of the bridge and the detour route is included in Appendix A as Figure 1. Photographs of the bridges are included in Appendix A as Figures 2 and 3.

NCDOT has sought input from the following agencies as a part of the project development: US Army Corps of Engineers, NC Department of Natural Resources, US Fish & Wildlife Service, NC Wildlife Resources Commission, NC Division of Water Resources, and the Environmental Protection Agency. No special concerns were expressed by any of the agencies contacted.

Estimated Costs:

The estimated costs, based on 2017 prices, are as follows:

R/W: \$ 160,000 Const: \$ 950,000 Total: \$1,110,000

Estimated Traffic:

Year 2015 1700 vehicles per day (vpd)

Year 2040 2800 vpd

Accidents: Three crashes occurred in the vicinity of the project during a recent five-year period. Of the three crashes, none were attributed to bridge geometry or approach roadways.

Design Exceptions: There are no anticipated design exceptions for this project.

Pedestrian and Bicycle Accommodations: SR 2045 is not a designated bicycle route, nor does it have any pedestrian accommodations and no special bicycle or pedestrian accommodations are recommended.

Offsite Detour: Bridge No. 72 will be replaced on the existing alignment. Traffic will be detoured offsite (see Figure 1) during the construction period. NCDOT Guidelines for Evaluation of Offsite Detours for Bridge Replacement Projects considers multiple project variables beginning with the additional time traveled by the average road user resulting from the offsite detour. The offsite detour for this project would include SR 1120 (Overhills Road), NC 210, and SR 2048 (Bethel Baptist Road). The majority of traffic on the road is through traffic. The detour for the average road user would result in 10 minutes additional travel time (8.5 miles additional travel). Up to a 12-month construction duration is expected for this project.

Public Involvement: A landowner notification letter and a newsletter were sent to all property owners affected directly by this project. Property owners were invited to comment. No comments have been received to date.

Anticipated Permits: The proposed project will affect approximately 0.13 acres of wetlands. A Nationwide permit (NWP) 23 (33 CFR 330.5(a) 23)) will likely be required for impacts to "Waters of the United States" resulting from this project. Other permits that may apply include a NWP 33 for temporary construction activities such as stream dewatering, work bridges, or temporary causeways that may be required during bridge construction.

In addition, a Section 404 permit will likely be applicable. An NCDWR Section 401 Water Quality General Certification may be required prior to the issuance of a Section 404 Permit. Other required 401 certifications may include a GC 3366 for temporary construction access and dewatering. The US Army Corps of Engineers holds the final discretion as to what permit will be required to authorize project construction.

Due to the presence of a flood zone, a FEMA permit will be required.

F. Project Impact Criteria Checklists:

Type I & II - Ground Disturbing Actions			
FHWA APPROVAL ACTIVITIES THRESHOLD CRITERIA			
If any of questions 1-7 are marked "yes" then the CE will require FHWA approval.		Yes	No
1	Does the project require formal consultation with U.S. Fish and Wildlife Service (USFWS) or National Marine Fisheries Service (NMFS)?		\boxtimes
2	Does the project result in impacts subject to the conditions of the Bald and Golden Eagle Protection Act (BGPA)?		\boxtimes
3	Does the project generate substantial controversy or public opposition, for any reason, following appropriate public involvement?		\boxtimes
4	Does the project cause disproportionately high and adverse impacts relative to low-income and/or minority populations?		\boxtimes
5	Does the project involve a residential or commercial displacement, or a substantial amount of right of way acquisition?		\boxtimes
6	Does the project require an Individual Section 4(f) approval?		\boxtimes
7	Does the project include adverse effects that cannot be resolved with a Memorandum of Agreement (MOA) under Section 106 of the National Historic Preservation Act (NHPA) or have an adverse effect on a National Historic Landmark (NHL)?		\boxtimes
If any of questions 8 through 31 are marked "yes" then additional information will be required for those questions in Section G.			
Other Considerations Yes N		No	
8	Does the project result in a finding of "may affect not likely to adversely affect" for listed species, or designated critical habitat under Section 7 of the Endangered Species Act (ESA)?		\boxtimes
9	Is the project located in anadromous fish spawning waters?		\boxtimes
10	Does the project impact waters classified as Outstanding Resource Water (ORW), High Quality Water (HQW), Water Supply Watershed Critical Areas, 303(d) listed impaired water bodies, buffer rules, or Submerged Aquatic Vegetation (SAV)?		\boxtimes
11	Does the project impact waters of the United States in any of the designated mountain trout streams?		\boxtimes
12	Does the project require a U.S. Army Corps of Engineers (USACE) Individual Section 404 Permit?		\boxtimes
13	Will the project require an easement from a Federal Energy Regulatory Commission (FERC) licensed facility?		\boxtimes
14	Does the project include a Section 106 of the NHPA effects determination other than a no effect, including archaeological remains?		\boxtimes

Other Considerations (continued)		Yes	No
15	Does the project involve hazardous materials and/or landfills?		\boxtimes
16	Does the project require work encroaching and adversely affecting a regulatory floodway or work affecting the base floodplain (100-year flood) elevations of a water course or lake, pursuant to Executive Order 11988 and 23 CFR 650 subpart A?	\boxtimes	
17	Is the project in a Coastal Area Management Act (CAMA) county and substantially affects the coastal zone and/or any Area of Environmental Concern (AEC)?		\boxtimes
18	Does the project require a U.S. Coast Guard (USCG) permit?		\boxtimes
19	Does the project involve construction activities in, across, or adjacent to a designated Wild and Scenic River present within the project area?		\boxtimes
20	Does the project involve Coastal Barrier Resources Act (CBRA) resources?		\boxtimes
21	Does the project impact federal lands (e.g. U.S. Forest Service (USFS), USFWS, etc.) or Tribal Lands?		\boxtimes
22	Does the project involve any changes in access control?		\boxtimes
23	Does the project have a permanent adverse effect on local traffic patterns or community cohesiveness?		\boxtimes
24	Will maintenance of traffic cause substantial disruption?		\boxtimes
25	Is the project inconsistent with the STIP or the Metropolitan Planning Organization's (MPO's) Transportation Improvement Program (TIP) (where applicable)?		\boxtimes
26	Does the project require the acquisition of lands under the protection of Section 6(f) of the Land and Water Conservation Act, the Federal Aid in Fish Restoration Act, the Federal Aid in Wildlife Restoration Act, Tennessee Valley Authority (TVA), or other unique areas or special lands that were acquired in fee or easement with public-use money and have deed restrictions or covenants on the property?		\boxtimes
27	Does the project involve Federal Emergency Management Agency (FEMA) buyout properties under the Hazard Mitigation Grant Program (HMGP)?		\boxtimes
28	Does the project include a <i>de minimis</i> or programmatic Section 4(f)?		\boxtimes
29	Is the project considered a Type I under the NCDOT's Noise Policy?		\boxtimes
30	Is there prime or important farmland soil impacted by this project as defined by the Farmland Protection Policy Act (FPPA)?		\boxtimes
31	Are there other issues that arose during the project development process that affected the project decision?		\boxtimes

G. Additional Documentation as Required from Section F

Response to Question 8:

Northern long-eared bat (NLEB): The US Fish and Wildlife Service has developed a programmatic biological opinion (PBO) in conjunction with the Federal Highway Administration, the US Army Corps of Engineers and NCDOT, for the northern long-eared bat in eastern North Carolina. The PBO covers the entire NCDOT program in Divisions 1-8, including all NCDOT

projects and activities. The programmatic determination for northern long-eared bat for the NCDOT program in Divisions 1-8 is "May Affect, Likely to Adversely Affect." The PBO will provide incidental take coverage for northern long-eared bat and will ensure compliance with Section 7 of the Endangered Species Act for five years for all NCDOT projects with a federal nexus in Divisions 1-8, which includes Harnett County.

Response to Question 16:

Harnett County is a participant in the National Flood Insurance Program, administered by the Federal Emergency Management Agency (FEMA). Based on the most current information available from the NC Floodplain Mapping Program (FMP), these stream crossings are in a designated flood hazard zone.

The proposed bridge replacement will provide equivalent or greater conveyance than that of the existing bridge. The Hydraulics Unit will coordinate with the FMP, the delegated state agency administering FEMA's National Flood Insurance Program, to determine the status of the project with regard to applicability of NCDOT'S Memorandum of Agreement with FMP, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

This project involves construction activities on or adjacent to a FEMA-regulated stream. Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying the drainage structures and roadway embankment located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

H. Project Commitments

Harnett County Project Name WBS No. 17BP.6.R.96 TIP No. B-5513

Division Six Construction, Resident Engineer's Office

Harnett County Emergency Services will be contacted at (910) 893-7563 at least one month prior to road closure to make the necessary temporary reassignments to primary response units.

Harnett County Schools will be contacted at (910) 893-8151 at least one month prior to road closure to allow temporary rerouting of school buses.

This project involves construction activities on or adjacent to a FEMA-regulated stream. Therefore, the Division shall submit sealed as-built construction plans to the Hydraulics Unit upon completion of project construction, certifying the drainage structures and roadway embankment located within the 100-year floodplain were built as shown in the construction plans, both horizontally and vertically.

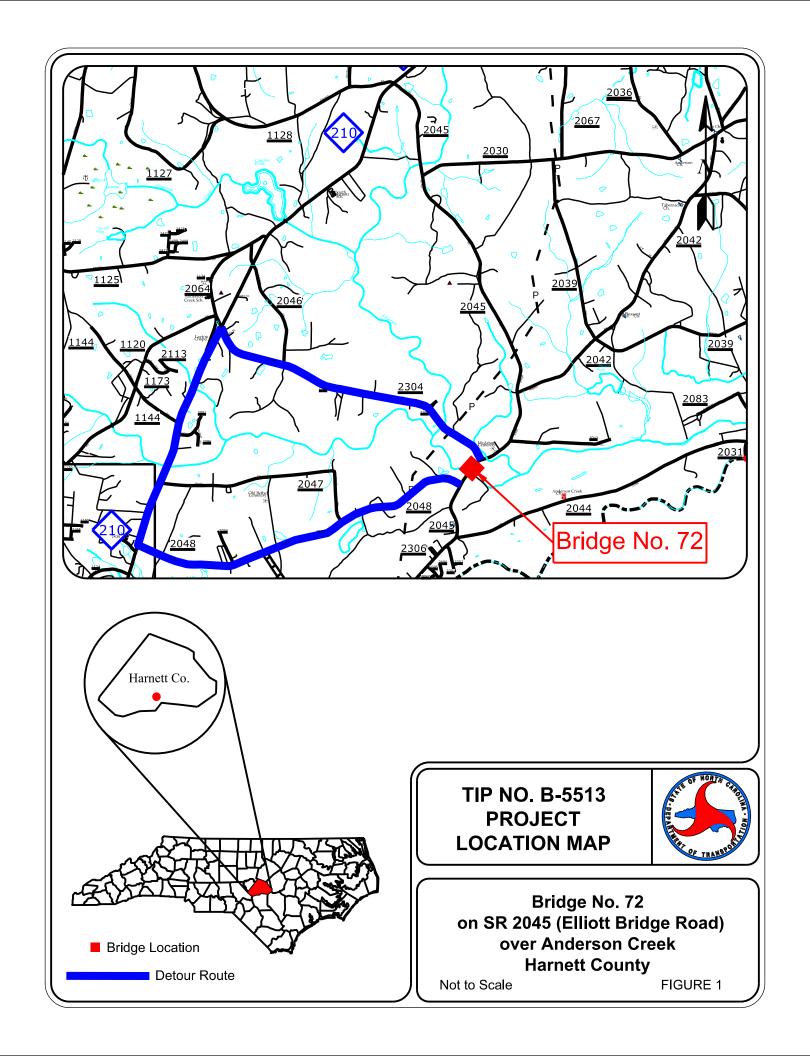
Hydraulics Unit

The Hydraulics Unit will coordinate with the Floodplain Mapping Program, the delegated state agency administering FEMA's National Flood Insurance Program, to determine the status of the project with regard to applicability of NCDOT'S Memorandum of Agreement with FMP, or approval of a Conditional Letter of Map Revision (CLOMR) and subsequent final Letter of Map Revision (LOMR).

I. <u>Categorical Exclusion Approval</u>

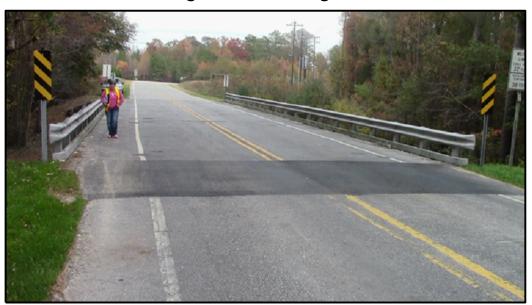
STIP Project N	o. B-5513
WBS Element	17BP.6.R.96
Federal Project	t No.
Prepared By:	—DocuSigned by:
6/9/2017	Stephen C. Greene
Date	Stephen C. Greene, P.E., Vice President Ramey Kemp & Associates, Inc.
Prepared For:	Project Development and Environmental Analysis Unit North Carolina Department of Transportation
Reviewed By:	——DocuSigned by:
6/9/2017	Joseph Miller
Date	Joseph H. Miller, PE, Project Planning Engineer Project Development and Environmental Analysis Unit North Carolina Department of Transportation
⊠ Approv	If all of the threshold questions (1 through 7) of Section F are answered "no," NCDOT approves this Categorical Exclusion.
Certifie	If any of the threshold questions (1 through 7) of Section F are answered "yes," NCDOT certifies this Categorical Exclusion.
6/9/2017	DocuSigned by:
Date	James McInnis, Jr., PE, Project Engineer Project Development and Environmental Analysis Unit North Carolina Department of Transportation
FHWA Approved:	For Projects Certified by NCDOT (above), FHWA signature required.
Date	N/A John F. Sullivan, III, PE, Division Administrator Federal Highway Administration

APPENDIX A

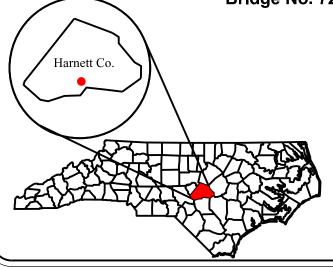




Bridge No. 72 looking South



Bridge No. 72 looking North



TIP NO. B-5513
Pictures of
Existing Conditions



Bridge No. 72 on SR 2045 (Elliott Bridge Road) over Anderson Creek Harnett County

Not to Scale

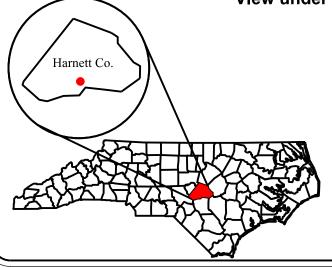
FIGURE 2



View from Bridge No. 72 Looking West



View under Bridge No. 72



TIP NO. B-5513
Pictures of
Existing Conditions



Bridge No. 72 on SR 2045 (Elliott Bridge Road) over Anderson Creek Harnett County

Not to Scale

FIGURE 3

